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| **Week/ Date** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **8/13-8/17**  **Class** | Intro  What are domain, range and symmetry of functions?  [Domain, Range and Symmetry of Functions](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Domain%20and%20range.docx)  [Goat on a Rope](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\Goat%20on%20a%20rope%202.docx) | 1.1: #2, 6  How do I read and represent functions: graphically, algebraically, numerically and verbally?  [Reading Graphs](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Reading%20Graphs.docx)  Goat on a Rope | What are the different types of functions? VLTest? What is a piecewise function? How do I limit the domain of a function using Boolean Variables?  1.2: 19-28, 33-41 | 1.3: Translations and Dilations of Functions  Exp.’s 1.3a,b,c  1.3: 4-6 (in HW notebook) | 1.3 #’s 15-20  What are the basic functions I need to know?  [Translations with parent functions](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\PCH%20parent%20functions%20writing%20equations%20%20and%20piecewise.docx) |
| **Hmwk** | **HW#1**  Read Section 1.1 and do #’s 1,4,5 | **HW#2**  1.2:1-5, 7,9,13,14 | **HW#3**  1.2: 29-32  1.3: 1,2 | **HW#4**  1.3: 4-12 (finish from class) | [Translated and Reflected Parent functions](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Translations,%20Reflections,%20Dilations%20Worksheet%20(version2)%5b1%5d.pdf)  [Translations, Reflections and Dil.](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\D-R%20of%20Translated%20and%20Refleced%20Parent%20Functions.doc) |
| **8/20-8/24**  **Class** | 1.4 What is composition of functions? How do I designate a composition?  [Oil Spill.tns](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\Oil%20spill%20-%20composition%20TIN\Application_of_Function_Composition.tns)  [Oil Spill.doc](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\Oil%20spill%20-%20composition%20TIN\Application_of_Function_Composition_Student.doc) | When is the domain of a composition limited?  [Composition by tables](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Composition%20of%20Functions%20Using%20Tables%20and%20Graphs.doc) | 1.5 What is the inverse of a function?  [ch.1\Finding Inverses - Restrictions.doc](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Finding%20Inverses%20-%20Restrictions.doc) | 1.5 Applications of Inverses  [ch.1\composition and inverse apps.docx](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\composition%20and%20inverse%20apps.docx) | 1.5 What is a parametric function?  1.5: 9-14, 17-19  1.6:What does it mean to have an “even” or “odd” function? How do I prove that algebraically and graphically? |
| **Hmwk** | **HW#6**  1.4: 6,8,10, 13,14 | **HW#7**  1.4: 1-5, 7,11, 15 | **HW#8**  1.5: 1-8 | [Understanding Inverses](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Understanding%20Inverses.docx) | [Even and Odd](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Even%20and%20Odd.docx) |
| **8/27-8/31**  **Class** | Review restricting domains to make f(x) invertible.  1.6: Reflections, Absolute value of functions, etc  [Absolute Value of functions](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch.1\Abs%20Val%20of%20functions.docx) | Review  1.5: 36-37  1.6: 7  Pg. 60  1.8: R6 | **Ch. 1 SOSA** | 2.2 Identifying functions from graphs  Review of Quadratic, Exponential functions | 2.2 Variation  2.2: 21-24 |
| **Hmwk** | 1.5: 35  1.6: 1,3,5 | Study | Read pgs.65-68 | 2.2: 1-9 | 2.2: 10, 11-19odd |
| **Week/ Date** | Monday | Tuesday | Wednesday | Thursday | Friday |
| **9/3-9/7**  **End of 4 weeks**  **Class** | LABOR DAY    NO SCHOOL | 2.2/2.3 Patterns of functions  2.3 Exploration a,b | 2.3 Patterns  2.2 Variation  [Variation Worksheet #1](file:///C:\Documents%20and%20Settings\marianne.lecesne\Desktop\PCH%202010\ch%202\Variation.pdf) | 2.6 What is the inverse of an exponential function?  Review graphs of exp. functions | 2.4: properties of Logs |
| **Hmwk** |  | 2.3: 1,4,6,8,9-13, 32(a & b only) | 2.3: 2,3,5,7,14, 18, 19  2.2: 21-24 | 2.3: 25, 26  2.6: 1,2, 5  Graphing sheet | 2.4: 1-25 odd,  35-41odd |
| **9/10-9/14**  **Class** | 2.6 Graphs of log functions as inverse of exponential | 2.4 Exploration  Properties of Logs (part 1) | **Quiz: 2**  2.1-2.3, exponential review and 2.6graphs of log functions | 2.4 Properties of Logs,  . | 2.4 Properties of Logs, II (Equations  Exp and Log Apps |
| **Hmwk** | Finish worksheet | Study for Quiz | Logs Worksheet | 2.4: 1-25 odd,  35-41odd | Logs Worksheets:  finish pg 3: 1-3  Do pg. 9: Love Those Logs! |
| **9/17-9/21**  **Class** | Rosh Hashanah  School Closed | Properties of Logs,  Solving exponential equations using logs  [Logs\Solving Exponential Equations with Logarithms.pdf](Logs/Solving%20Exponential%20Equations%20with%20Logarithms.pdf) | Exp and Log Apps  2.5 Other bases and Change of Base Th. | Exp and Log Apps  2.5 Other bases and Change of Base Th.  2.5: 45,47 | Review  2.5: 30-46Even |
| **Hmwk** |  | [Rewriting Logs](Logs/Rewriting%20Logs.docx)  Loco Logs | Pg. 5 and pg7 in packet | 2.5:1-41 odd, | 2.5: 30-46 Even, 45, 47 |
| **Week/**  **Date** | Monday | Tuesday | Wednesday | Thursday | Friday |
| **9/24-9/28**  **Class** | Exp and Log Models  2.6: 3 , 4a-d  2.3: 25bc, 28 | Arithmetic and Geometric Sequences  15.2: 3-11odd, 12  Worksheet | Sigma Notation  Worksheet  Partial Sums | Review  Pg. 119: R3-R6 | **Quiz – Log properties, applications & change of base theorem** |
| **Hmwk** | Finish class sheets | No Homework Night | 15.2: 1-11odd, 15,17 |  | Finish 15.2: 1-11odd, 15,17 if you did not do these Wednesday!!  15.3: Read pgs. 768-771  Do 15.3:11-21odd , |
| **10/1-10/5**  **End of 8 weeks**  **Class** | Finite Series (Arithmetic and Geometric)  Class Worksheet  Do Ch. 2 Bonus problems | Infinite Geometric Series  Convergent vs. Divergent | Apps | Review  Chapter Review:  R1, R2a-g, R3a-h | **Quiz Sequences and Series** |
| **Hmwk** | 15.2: 6-22E, 15.3: 23-28  \*\* Finish the prob’s below if you didm’t do these Weds and Fri!  15.2: 1-11odd, 15,17  15.3: Read pgs. 768-771  Do 15.3:11-21odd , | Finish Class Sheet  15.3: 29-35odd | Finish class sheet |  |  |
| **10/8-10/12**  **Class** | 2.7 Logistic Functions | 2.7 and Project | Amoritization  Finance Project | Finance Project  Review of Quadratics:  3 forms  Real and imaginary solutions | Finance Project Due  Read 4.2  Do 4.2: 5-13odd, 29, 31, 35, 37, 41 |
| **Hmwk** | 2.7: Q1-Q10, 1 | 2.7: 5, 7 |  | Read 4.2  Do 4.2: 5-13odd, 15,29, 31, 35, 37, 41 | 4.2: 43, 47, 48, 54-56, 58 |
| **Week/**  **Date** | Monday | Tuesday | Wednesday | Thursday | Friday |
| **10/15-10/19**  **Class** | Fall Holiday  School closed | PSAT Review | PSAT (30 min classes) | 4.2 Quadratics  From Vertex Form to Standard Form  From Standard Form to Vertex Form  Completing the square (Quadratic formula) | 4.1-4.2 Quadratics  4.3 Polynomials  Factored form  General shapes |
| **Hmwk** |  |  |  | Second 8 weeks Assigmnent #2 4.2: 47,48,55-58, 62,63 | Assignment #3  4.3: 1-19odd, |
| **10/22-10/26**  **Class** | 4.3 Polynomials:  Rational Root  Theorem  Factor Theorem | 4.3 Polynomial  Complex Solutions | 4.4 Fitting Polynomial Functions to Data  (Finite Differences and Matrices) | 4.4 Fitting Polynomial Functions to Data  (calc.) | Quad Models and apps  Polynomial models and apps |
| **Hmwk** | Assign.#4  4.3: 21, 24, 27-35 odd | Assign#5  4.3: 36,37 | Assign#6  4.4:1, 3, 4,8, 13 | Assign #7  4.4: 7,9,10, 12 | Study for test |
| **10/29-11/2**  **Class** | Polynomial Optimization Problems | Review | **Poly Quiz** | Bonus Problems | Alcohol problem part I  (intro to Rational functions)  4.5 Horizontal Asymptote at y=0 or y=c |
| **Hmwk** | Finish class problems |  | Alcohol problem  (intro to Rational functions)  Read and do pages 1-3 | Alcohol problem  (intro to Rational functions)  Read and do pages 1-3 | Assign.#8  4.5: 5-8( graph each and then write in the form ), 9,11,13 |
| **Week/Date** | Monday | Tuesday | Wednesday | Thursday | Friday |
| **11/5-11/9**  **End of 4 weeks**  **Class** | 4.5 Removable discontinuities & More than one VA | Alcohol problem parts II & III  Writing Equations from graphs | 4.5 Oblique Asymptotes & writing equations, given graphs  4.5: 22-26 | Oblique Asymptotes and 2 vertical asymptotes | More review |
| **Hmwk** | Assign.#9  4.5: 15,16, 19, 20 | Worksheet on graphing | Graphing worksheet | Worksheet : slant asymptotes and writing equations of rational functions | Assign. #10  4.5: 21-26 |
| **11/12-11/16**  **Class** | Graphing challenging rational functions  Writing equations, given graphs, & applications | Graphing challenging rational functions  Writing equations, given graphs, & applications | Writing equations, given graphs, & applications  Non-linear asymptotes | Applications & Review | **Rationals Test:**  **Graphs (non-calc) & Applications (calc)** |
| **Hmwk** | Worksheet and  Assign #11  4.5: 29, 31 | Worksheet | Finish Worksheet | Study for test |  |
| **11/26-11/30**  **Class** | 4.6 Partial fractions and Operations with Rational Expressions | 4.6 Applications, Partial fractions and Operations with Rational Expressions | 4.7 Fractional Equations and Extraneous Solutions | 4.7 Fractional Equations and Extraneous Solutions  Rational Inequalities | Rational Inequalities  Polynomial Inequalities |
| **Hmwk** | Assign#12  4.6: 9-13odd,25-33odd  Read pgs. 223-224 | Assign#13  4.6:28-34even, & worksheets | Assign#14  4.7:1,7-9, 11-19odd, 22 | Worksheet | Worksheet |
| **Week/Date** | Monday | Tuesday | Wednesday | Thursday | Friday |
| **12/3-12/7**  **Class** | Polynomial Inequalities  Absolute Value Inequalities |  |  | Difference Quotient and Rates of Change | Difference Quotient and Rates of Change |
| **Hmwk** | Complete Worksheet | Complete Worksheet | Complete Worksheet | Complete Worksheet | Complete Worksheet |
| **12/10**  **-12/14**  **Class** | Review | Review | **Quiz** | Review for Exam | Review for Exam |
| **Hmwk** |  |  |  |  |  |
| **12/17-12/21**  **Class** |  | EXAM |  |  |  |